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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/931,819	08/17/2001	Dae-Heon Kwon	678-662 (P9452)	3305

7590 07/15/2004

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EXAMINER

NGUYEN, HAU H

ART UNIT	PAPER NUMBER
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2676

DATE MAILED: 07/15/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/931,819

Applicant(s)

KWON ET AL.

Examiner

Hau H Nguyen

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 21 May 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-4 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-4 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 8.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

Response to Arguments

1. Applicant's arguments filed May 14, 2004 with respect to the rejections of claims 1-4 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground of rejection is made in view of Post et al. (U.S. Patent No. 5,402,148).

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Post et al. (U.S. Patent No. 5,402,148).

Referring to claims 1-4, Post et al. teach a method for simultaneously displaying images of different resolutions on a single raster scan video monitor begins with the step of storing lower resolution text and graphics data in a first memory (corresponding to a second memory of the claims). The data in the first memory is used to generate a first video frame having N1 pixels per line. A first video data stream is generated from the first memory at a first rate corresponding generally to the bandwidth of the video monitor. Higher resolution biological waveform data is stored in a second memory (corresponding to a first memory). The data in the second memory represents a second video frame having N2 pixels per line. The first and second video data

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streams are combined to produce a single combined video data stream that is displayed on the video monitor (reading out from the first memory and the second memory to display) (col. 1, lines 53-67, and col. 2, lines 1-8). As shown in Fig. 6, Post et al. teach a monitor screen 76 displaying a low resolution field 78 as would be found on a personal computer having text 80 and graphics 82 both displayed at a first predetermined resolution. The field 78 can extend throughout the entire screen area 76 or be confined as shown. Simultaneously, one or more channels of scrolling ECG waveforms 86A through 86C are displayed at a second predetermined resolution greater than the first resolution (col. 5, lines 62-68, and col. 6, lines 1-5). With reference to Fig. 2 and column 3, lines 60-68, and column 4, lines 1-6, Post et al. teach the first memory and the second memory receive the control signals from the respective video controllers 26 and 32. The number of bits used is determined by the number of possible colors, which is determined by the size of the color palette in the RAMDAC (substantially equal to a real color).

Thus, Post et al. teach all the limitations of claims 1-4 except for the device is used in a mobile terminal, and a first selector to provide the first memory with image data, and a second selector to the text data and background image to the second memory. However, it would have been obvious to one skilled in the art to utilize the method as taught by Post et al. for use in any display device including a mobile terminal since a mobile terminal is compact and portable, and it would have been obvious to add a first selector and a second selector to the first memory and the second memory, respectively in order to provide the corresponding image data to the appropriate memory.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hau H. Nguyen whose telephone number is: 703-305-4104. The examiner can normally be reached on MON-FRI from 8:30-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Bella can be reached on 703-308-6829.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D. C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered response should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

H. Nguyen

07/07/2004

Ulka J. Chauhan
ULKA J. CHAUHAN
PRIMARY EXAMINER